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# 1 [An algorithm for pronominal anaphora resolution](#)

Shalom Lappin, Herbert J. Leass

December 1994 **Computational Linguistics**, Volume 20 Issue 4

Full text available:

pdf(1.74 MB)

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This paper presents an algorithm for identifying the noun phrase antecedents of third person pronouns and lexical anaphors (reflexives and reciprocals). The algorithm applies to the syntactic representations generated by McCord's Slot Grammar parser and relies on salience measures derived from syntactic structure and a simple dynamic model of attentional state. Like the parser, the algorithm is implemented in Prolog. The authors have tested it extensively on computer manual texts and conducted a ...

# 2 [Document image understanding](#)

Sargur N. Srihari

November 1999 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available: pdf(1.38 MB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

# 3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

# 4 [Papers: Identification and classification of proper nouns in Chinese texts](#)

Hsin-Hsi Chen, Jen-Chang Lee

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume**

1

Full text available:  [pdf\(804.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Various strategies are proposed to identify and classify three types of proper nouns in Chinese texts. Clues from character, sentence and paragraph levels are employed to resolve Chinese personal names. Character, Syllable and Frequency Conditions are presented to treat transliterated personal names. To deal with organization names, keywords, prefix, word association and parts-of-speech are applied. For fair evaluation, large scale test data are selected from six sections of a newspaper. The pre ...

## 5 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3


Full text available:  [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

## 6 Subtopic structuring for full-length document access

Marti A. Hearst, Christian Plaunt

July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval**


Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We argue that the advent of large volumes of full-length text, as opposed to short texts like abstracts and newswire, should be accompanied by corresponding new approaches to information access. Toward this end, we discuss the merits of imposing structure on full-length text documents; that is, a partition of the text into coherent multi-paragraph units that represent the pattern of subtopics that comprise the text. Using this structure, we can make a distinction between th ...

## 7 Special issue on using large corpora: I: Text-translation alignment

Martin Kay, Martin Röscheisen

March 1993 **Computational Linguistics**, Volume 19 Issue 1



Full text available:  [pdf\(1.20 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)  
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We present an algorithm for aligning texts with their translations that is based only on internal evidence. The relaxation process rests on a notion of which word in one text corresponds to which word in the other text that is essentially based on the similarity of their distributions. It exploits a partial alignment of the word level to induce a maximum likelihood alignment of the sentence level, which is in turn used, in the next iteration, to refine the word level estimate. The algorithm app ...

## 8 Student session: Text alignment in a tool for translating revised documents

Hadar Shemtov


April 1993 **Proceedings of the sixth conference on European chapter of the Association for Computational Linguistics**

Full text available:  [pdf\(489.94 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)  
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9 Experience Using Multiprocessor Systems—A Status Report

Anita K. Jones, Peter Schwarz

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Full text available:  pdf(4.48 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)





10 TextTiling: segmenting text into multi-paragraph subtopic passages

Marti A. Hearst

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Full text available:

 pdf(2.46 MB) 

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Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, or subtopics. The discourse cues for identifying major subtopic shifts are patterns of lexical co-occurrence and distribution. The algorithm is fully implemented and is shown to produce segmentation that corresponds well to human judgments of the subtopic boundaries of 12 texts. Multi-paragraph subtopic segmentation should be useful for many text analysis tasks, including information retrieval and ...



11 Developing a natural language interface to complex data

Gary G. Hendrix, Earl D. Sacerdoti, Daniel Sagalowicz, Jonathan Slocum

June 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 2

Full text available:  pdf(3.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Aspects of an intelligent interface that provides natural language access to a large body of data distributed over a computer network are described. The overall system architecture is presented, showing how a user is buffered from the actual database management systems (DBMSs) by three layers of insulating components. These layers operate in series to convert natural language queries into calls to DBMSs at remote sites. Attention is then focused on the first of the insulating components, th ...


**Keywords:** database access, human engineering, intelligent interface, natural language, run-time personalization, semantic grammar



12 Sequential thematic organization of publications: how to achieve coherence in proposals and reports

J. R. Tracey, D. E. Rugh, W. S. Starkey

August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3

Full text available:  pdf(3.80 MB)

Additional Information: [full citation](#), [index terms](#)



13 Papers: Aligning more words with high precision for small bilingual corpora

Sur-Jin Ker, Jason J. S. Chang

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 1**

Full text available:  pdf(605.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we propose an algorithm for aligning words with their translation in a bilingual corpus. Conventional algorithms are based on word-by-word models which require bilingual



data with hundreds of thousand sentences for training. By using a word-based approach, less frequent words or words with diverse translations generally do not have statistically significant evidence for confident alignment. Consequently, incomplete or incorrect alignments occur. Our algorithm attempts to handle th ...

#### 14 Automatic hypertext link typing

James Allan

March 1996 **Proceedings of the the seventh ACM conference on Hypertext**


Full text available:  [pdf\(919.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** information retrieval, link generation, link types

#### 15 Computational strategies for object recognition

Paul Suetens, Pascal Fua, Andrew J. Hanson

March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1

Full text available:  [pdf\(6.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

**Keywords:** image understanding, model-based vision, object recognition

#### 16 Modeling word occurrences for the compression of concordances

A. Bookstein, S. T. Klein, T. Raita

July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3

Full text available:  [pdf\(630.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

An earlier paper developed a procedure for compressing concordances, assuming that all elements occurred independently. The models introduced in that paper are extended here to take the possibility of clustering into account. The concordance is conceptualized as a set of bitmaps, in which the bit locations represent documents, and the one-bits represent the occurrence of given terms. Hidden Markov Models (HMM's) are used to describe the clustering of the one-bits. However, for computational ...

**Keywords:** classification of graph nodes, concordance organization, concordance storage, graph structure

#### 17 Discourse segmentation by human and automated means

Rebecca J. Passonneau, Diane J. Litman

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Full text available:  [pdf\(2.71 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)  
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The need to model the relation between discourse structure and linguistic features of utterances is almost universally acknowledged in the literature on discourse. However, there

is only weak consensus on what the units of discourse structure are, or the criteria for recognizing and generating them. We present quantitative results of a two-part study using a corpus of spontaneous, narrative monologues. The first part of our paper presents a method for empirically validating multitutterance units ...

**18 Novelty and topic change: Domain-independent text segmentation using anisotropic diffusion and dynamic programming**

Xiang Ji, Hongyuan Zha

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**

Full text available:  pdf(171.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a novel domain-independent text segmentation method, which identifies the boundaries of topic changes in long text documents and/or text streams. The method consists of three components: As a preprocessing step, we eliminate the *document-dependent* stop words as well as the generic stop words before the sentence similarity is computed. This step assists in the discrimination of the sentence semantic information. Then the cohesion information of sentences in a document o ...

**Keywords:** anisotropic diffusion, document-dependent stop words, dynamic programming, text segmentation

**19 Computational Approaches to Image Understanding**

Michael Brady

January 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

Full text available:  pdf(10.04 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**20 The rhetorical parsing of unrestricted texts: a surface-based approach**

Daniel Marcu

September 2000 **Computational Linguistics**, Volume 26 Issue 3

Full text available:  pdf(3.87 MB)  Additional Information: [full citation](#), [abstract](#), [references](#)  
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Coherent texts are not just simple sequences of clauses and sentences, but rather complex artifacts that have highly elaborate rhetorical structure. This paper explores the extent to which well-formed rhetorical structures can be automatically derived by means of surface-form-based algorithms. These algorithms identify discourse usages of cue phrases and break sentences into clauses, hypothesize rhetorical relations that hold among textual units, and produce valid rhetorical structure trees for ...

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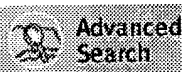
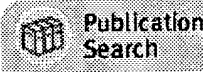
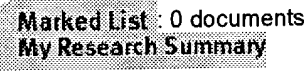
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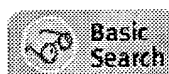
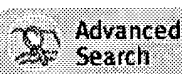
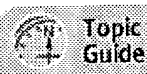
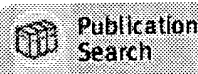
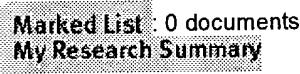
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








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